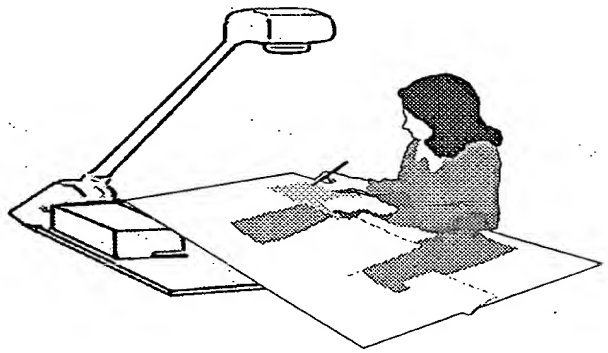

FIG. 1A

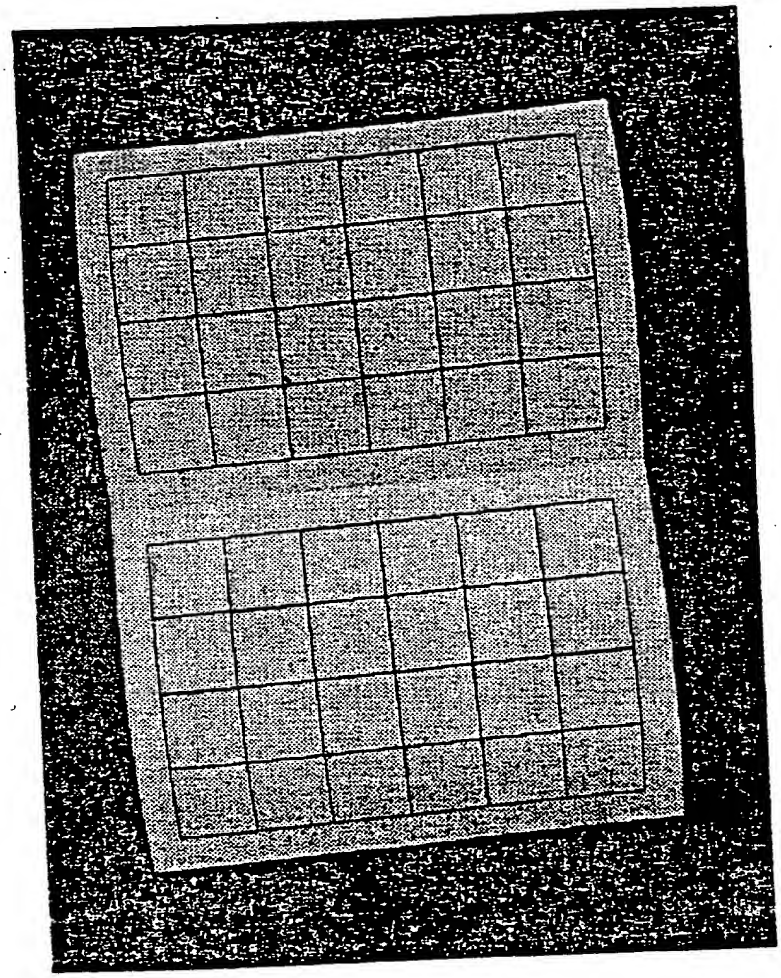

FIG. 1B

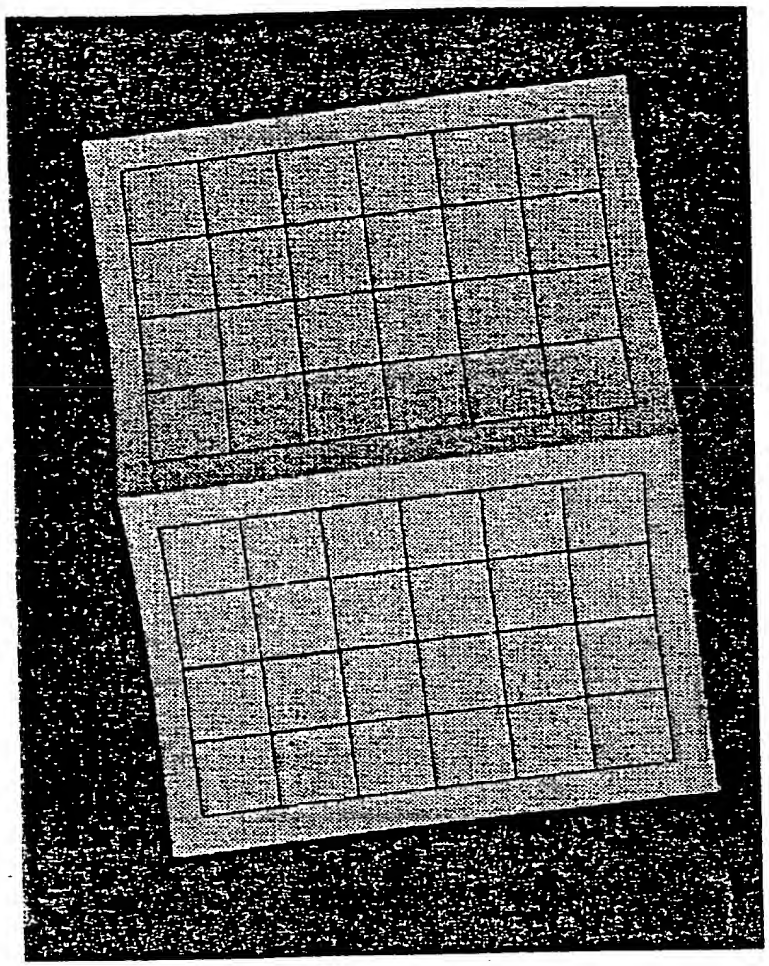

FIG. 1C

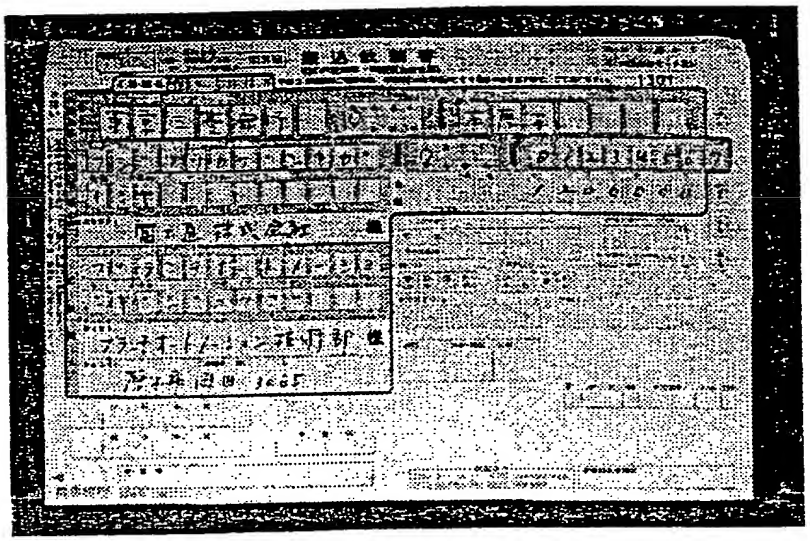

FIG. 1D

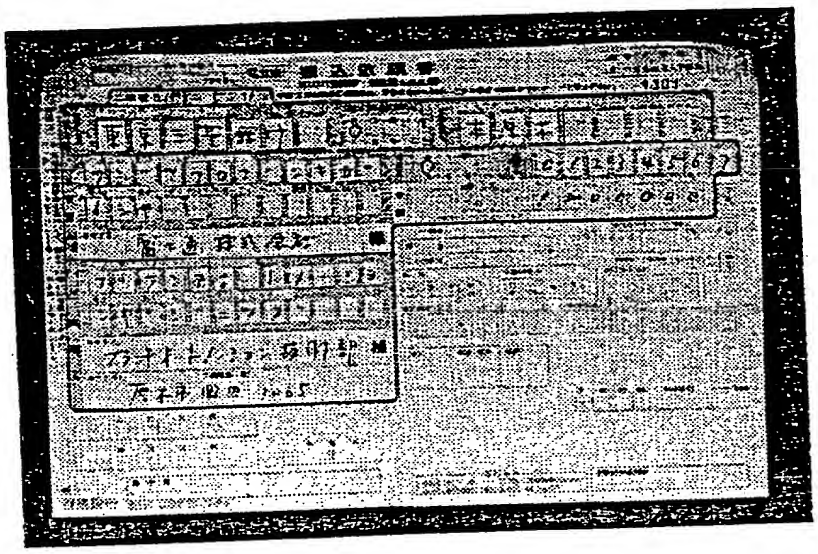

FIG. 1E

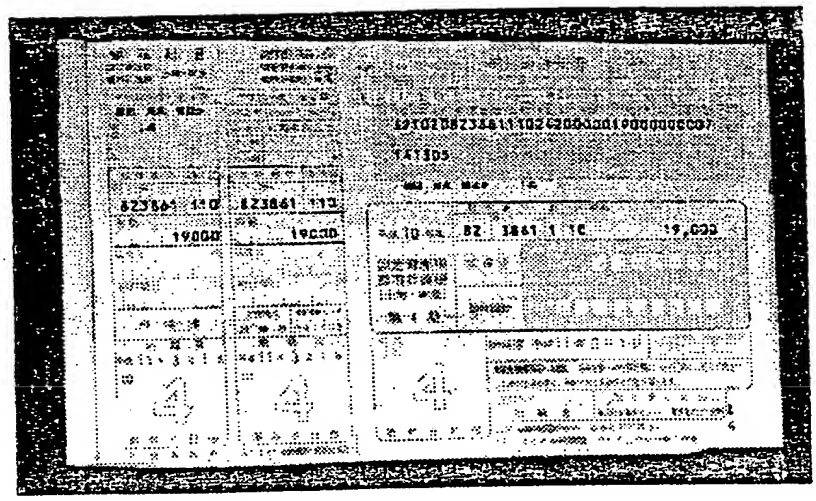

FIG. 1F

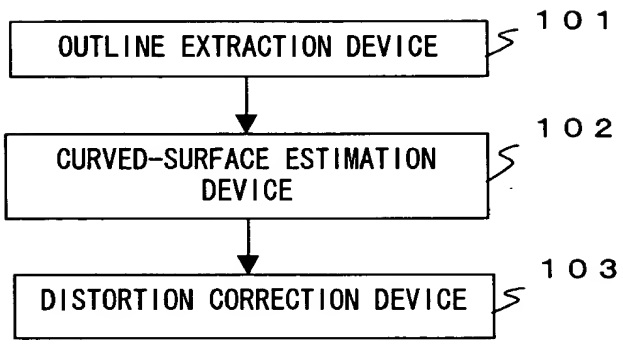
OUTLINE EXTRACTION DEVICE
101
CURVED-SURFACE ESTIMATION DEVICE
102
DISTORTION CORRECTION DEVICE
103

FIG. 2A

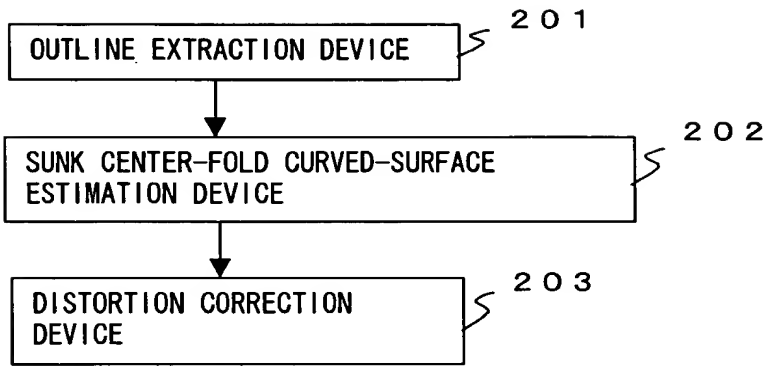
OUTLINE EXTRACTION DEVICE
201
SUNK CENTER-FOLD CURVED-SURFACE ESTIMATION DEVICE
202
DISTORTION CORRECTION DEVICE
203

FIG. 2B

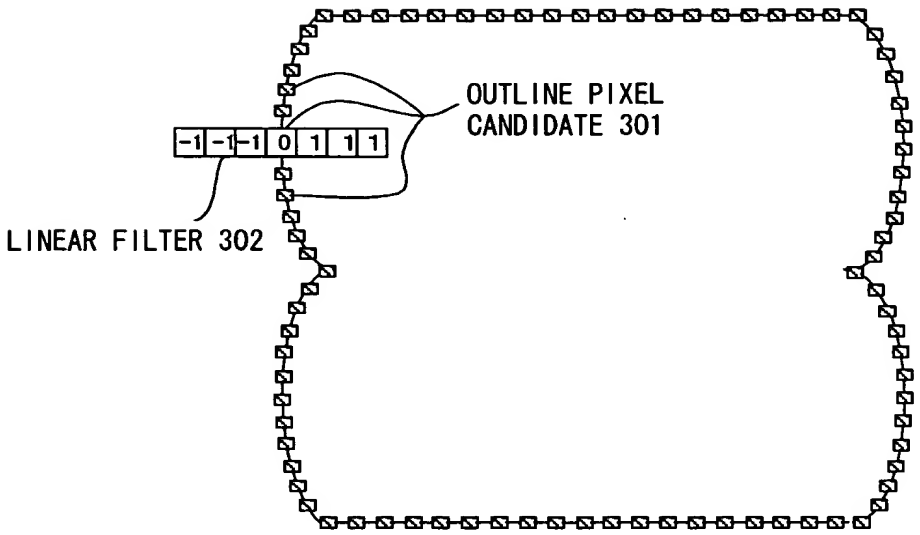

FIG. 3

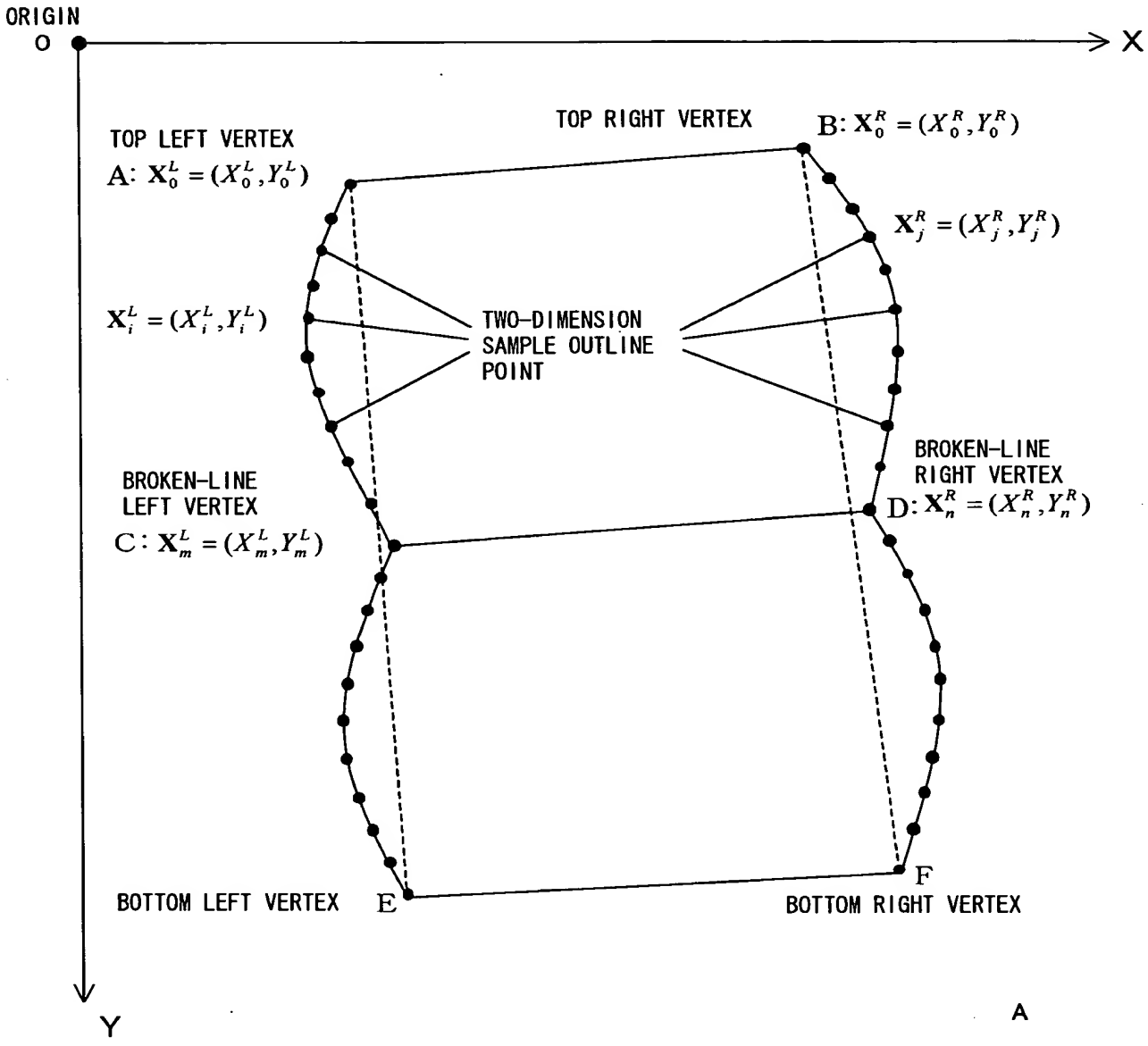
ORIGIN
O
X
Y
TOP LEFT VERTEX
A: $\mathbf{X}_0^L = (X_0^L, Y_0^L)$
TOP RIGHT VERTEX
B: $\mathbf{X}_0^R = (X_0^R, Y_0^R)$
$\mathbf{X}_j^R = (X_j^R, Y_j^R)$
$\mathbf{X}_i^L = (X_i^L, Y_i^L)$
TWO-DIMENSION SAMPLE OUTLINE POINT
BROKEN-LINE RIGHT VERTEX
D: $\mathbf{X}_n^R = (X_n^R, Y_n^R)$
BROKEN-LINE LEFT VERTEX
C: $\mathbf{X}_m^L = (X_m^L, Y_m^L)$
BOTTOM LEFT VERTEX
E
F
BOTTOM RIGHT VERTEX
A

FIG. 4

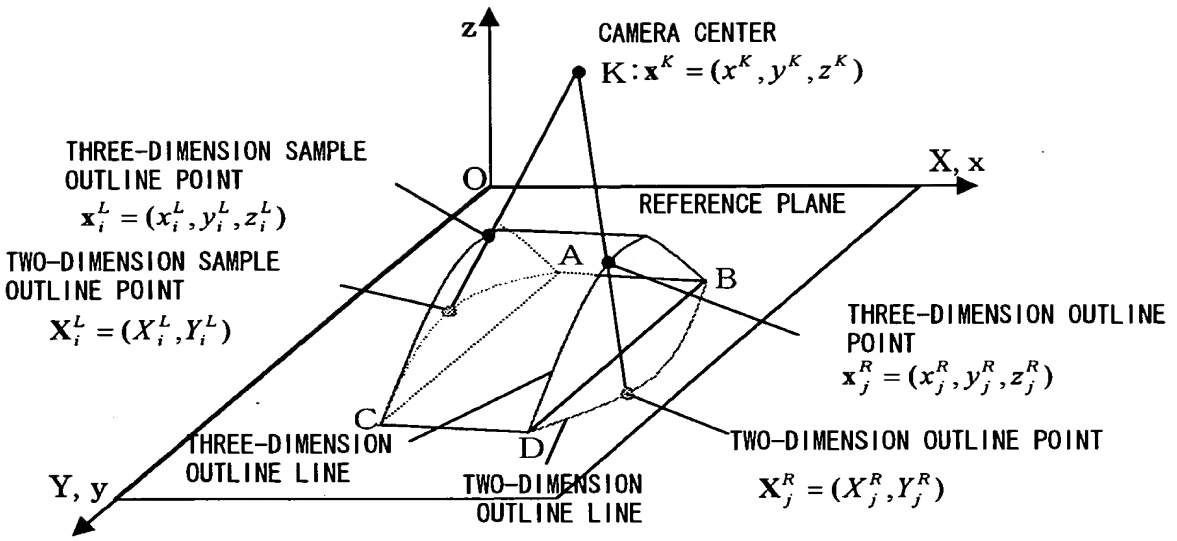
z
CAMERA CENTER
K : $\mathbf{x}^K = (x^K, y^K, z^K)$
THREE-DIMENSION SAMPLE OUTLINE POINT
$\mathbf{x}_i^L = (x_i^L, y_i^L, z_i^L)$
O
X, x
REFERENCE PLANE
TWO-DIMENSION SAMPLE OUTLINE POINT
$\mathbf{X}_i^L = (X_i^L, Y_i^L)$
A
B
THREE-DIMENSION OUTLINE POINT
$\mathbf{x}_j^R = (x_j^R, y_j^R, z_j^R)$
C
D
THREE-DIMENSION OUTLINE LINE
TWO-DIMENSION OUTLINE POINT
$\mathbf{X}_j^R = (X_j^R, Y_j^R)$
Y, y
TWO-DIMENSION OUTLINE LINE

FIG. 5

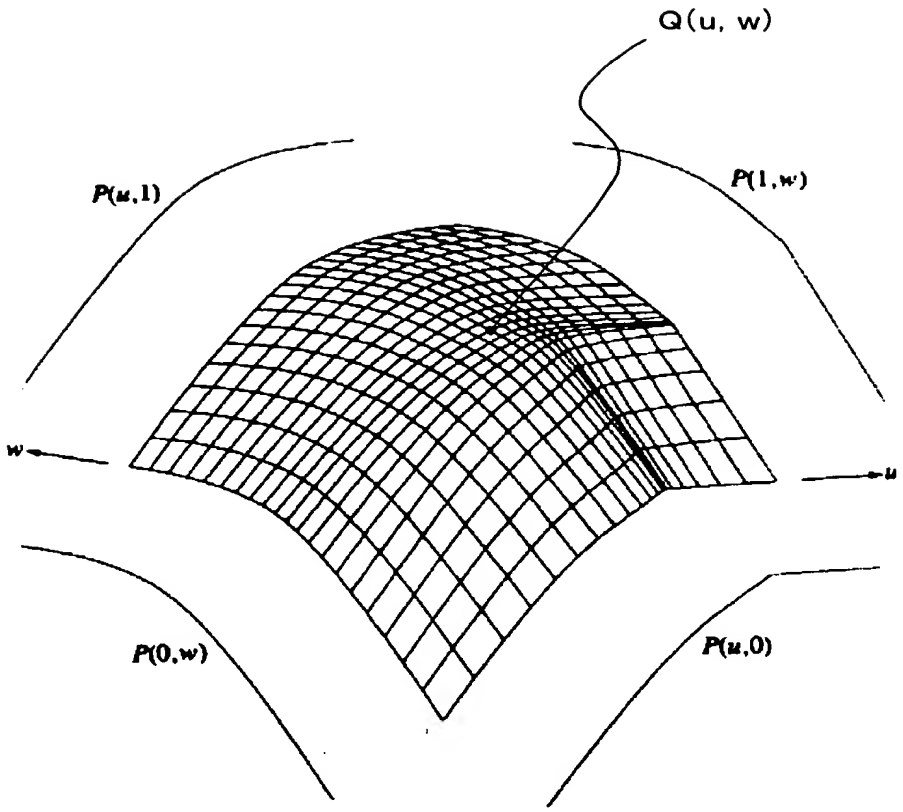

FIG. 6

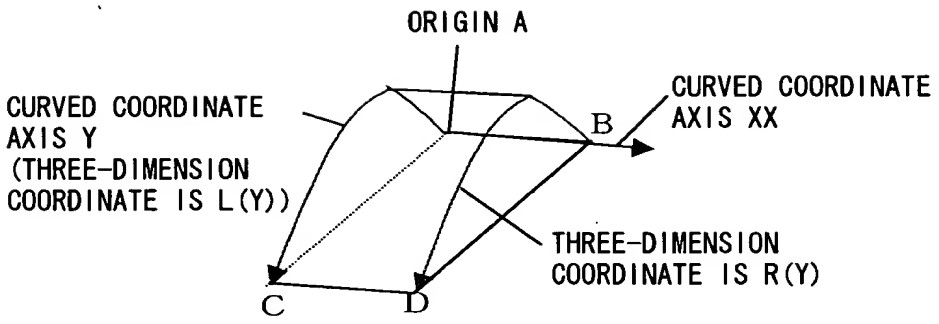
ORIGIN A
CURVED COORDINATE
AXIS Y
(THREE-DIMENSION
COORDINATE IS L(Y))
CURVED COORDINATE
AXIS XX
B
THREE-DIMENSION
COORDINATE IS R(Y)
C
D

FIG. 7

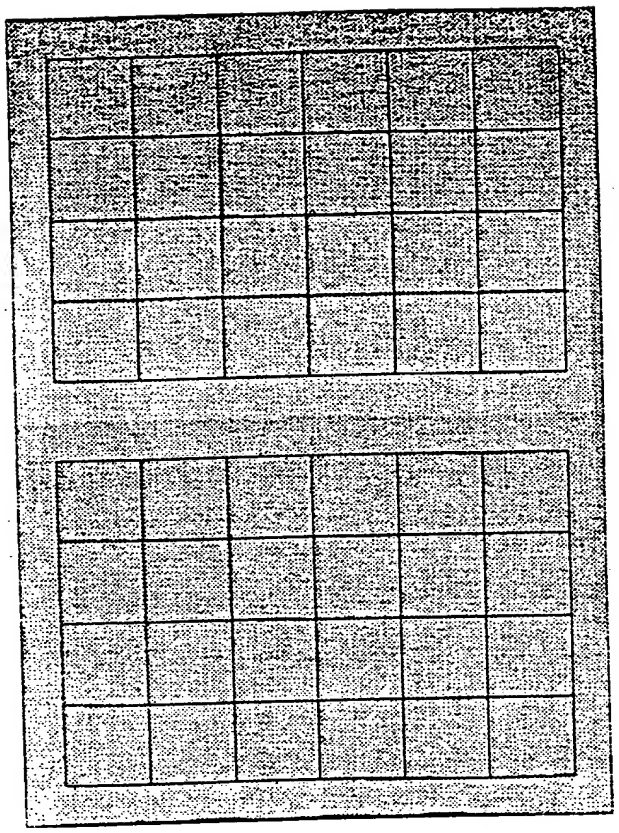

FIG. 8

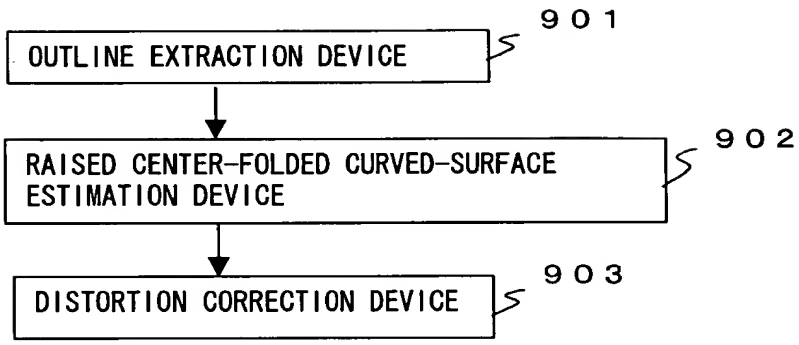
901
OUTLINE EXTRACTION DEVICE
902
RAISED CENTER-FOLDED CURVED-SURFACE ESTIMATION DEVICE
903
DISTORTION CORRECTION DEVICE

FIG. 9

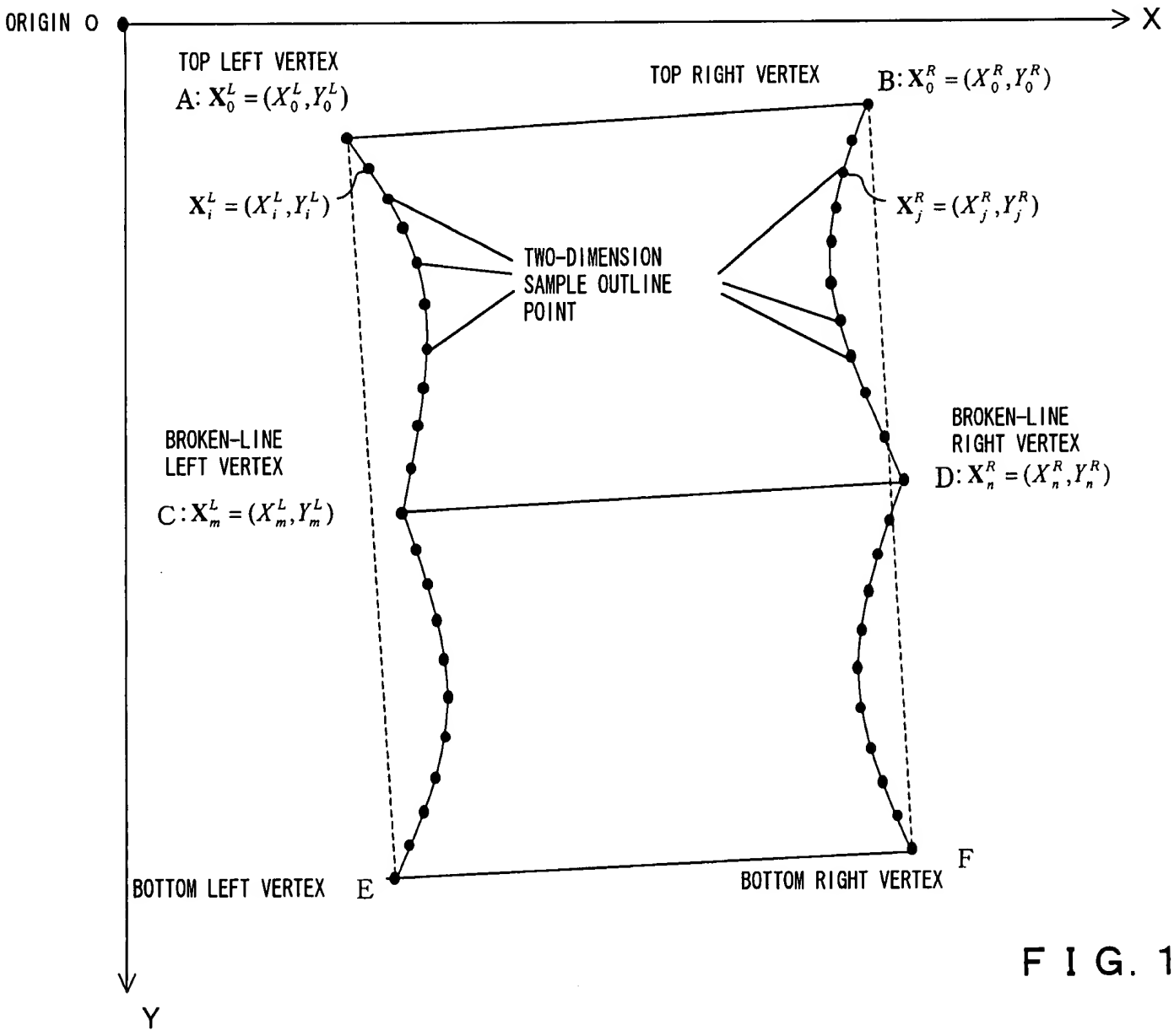
ORIGIN O
X
Y
TOP LEFT VERTEX
A: $\mathbf{X}_0^L = (X_0^L, Y_0^L)$
TOP RIGHT VERTEX
B: $\mathbf{X}_0^R = (X_0^R, Y_0^R)$
$\mathbf{X}_i^L = (X_i^L, Y_i^L)$
$\mathbf{X}_j^R = (X_j^R, Y_j^R)$
TWO-DIMENSION SAMPLE OUTLINE POINT
BROKEN-LINE LEFT VERTEX
C: $\mathbf{X}_m^L = (X_m^L, Y_m^L)$
BROKEN-LINE RIGHT VERTEX
D: $\mathbf{X}_n^R = (X_n^R, Y_n^R)$
BOTTOM LEFT VERTEX
E
F
BOTTOM RIGHT VERTEX

FIG. 10

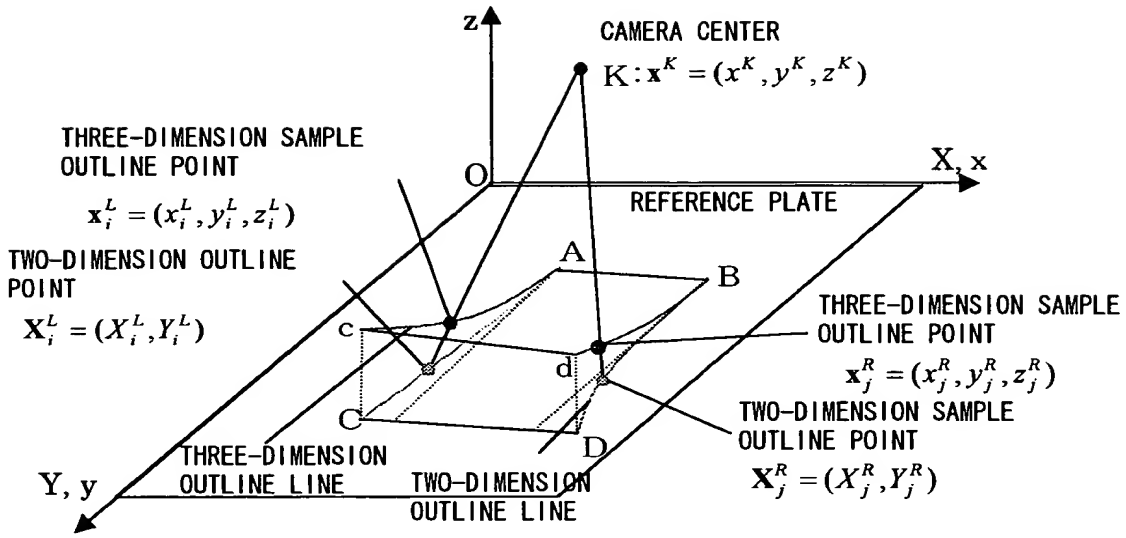
z
CAMERA CENTER
$K: \mathbf{x}^K = (x^K, y^K, z^K)$
THREE-DIMENSION SAMPLE OUTLINE POINT
$\mathbf{x}_i^L = (x_i^L, y_i^L, z_i^L)$
O
X, x
REFERENCE PLATE
TWO-DIMENSION OUTLINE POINT
$\mathbf{X}_i^L = (X_i^L, Y_i^L)$
A
B
c
d
C
D
THREE-DIMENSION SAMPLE OUTLINE POINT
$\mathbf{x}_j^R = (x_j^R, y_j^R, z_j^R)$
TWO-DIMENSION SAMPLE OUTLINE POINT
$\mathbf{X}_j^R = (X_j^R, Y_j^R)$
Y, y
THREE-DIMENSION OUTLINE LINE
TWO-DIMENSION OUTLINE LINE

FIG. 11

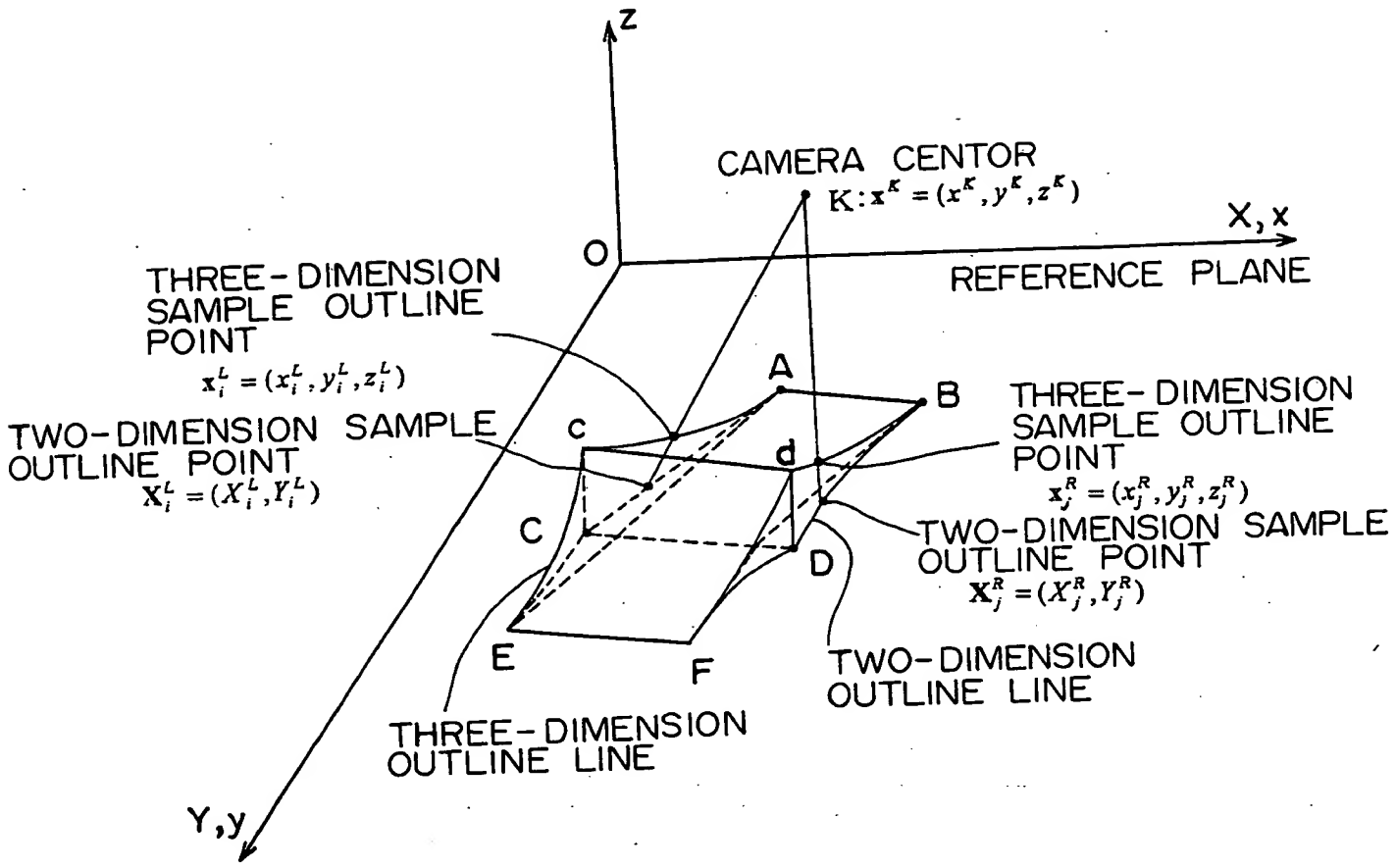
Z
CAMERA CENTOR
K: $x^K = (x^K, y^K, z^K)$
X, x
O
REFERENCE PLANE
THREE-DIMENSION SAMPLE OUTLINE POINT
$x_i^L = (x_i^L, y_i^L, z_i^L)$
A
B
THREE-DIMENSION SAMPLE OUTLINE POINT
$x_j^R = (x_j^R, y_j^R, z_j^R)$
TWO-DIMENSION SAMPLE OUTLINE POINT
$X_i^L = (X_i^L, Y_i^L)$
c
d
C
D
TWO-DIMENSION SAMPLE OUTLINE POINT
$X_j^R = (X_j^R, Y_j^R)$
E
F
TWO-DIMENSION OUTLINE LINE
THREE-DIMENSION OUTLINE LINE
Y, y

FIG. 12

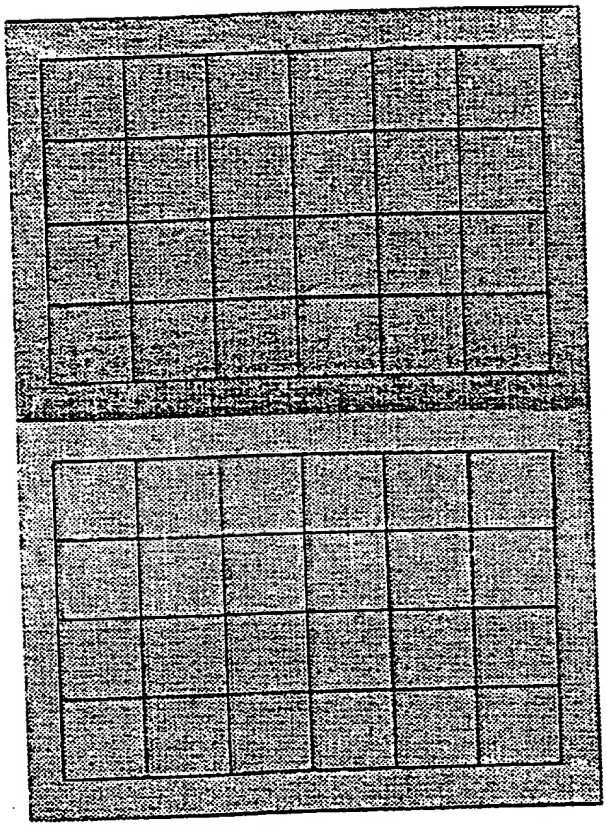

FIG. 13

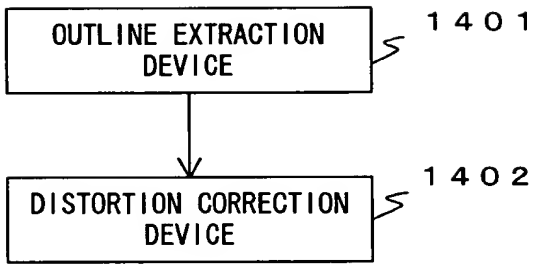
OUTLINE EXTRACTION DEVICE
1401
DISTORTION CORRECTION DEVICE
1402

FIG. 14

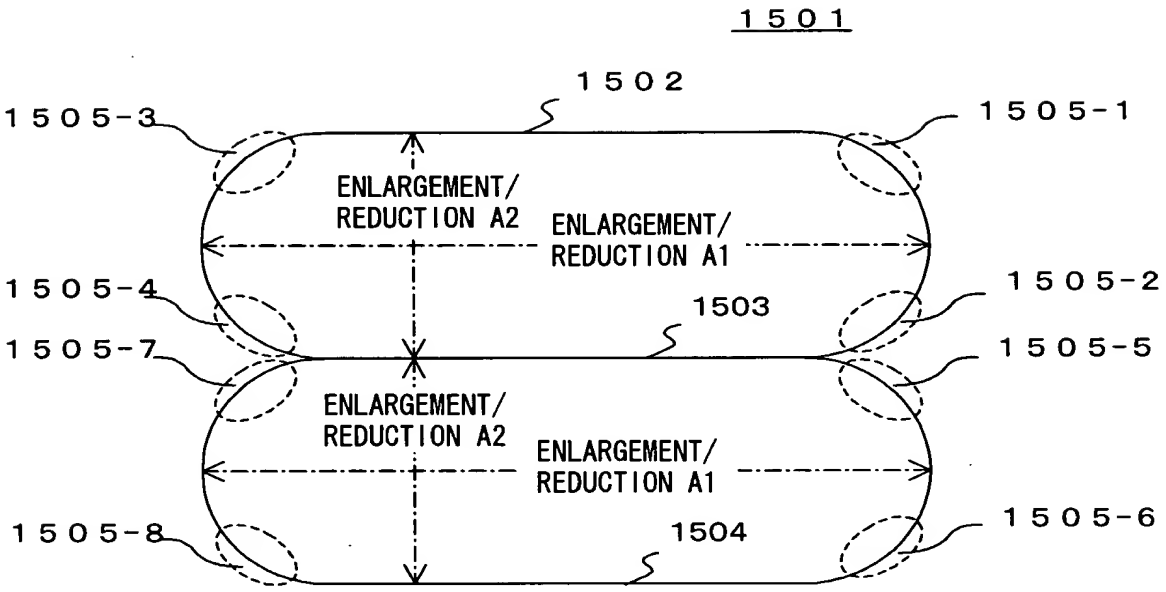
1501
1502
1505-3
1505-1
ENLARGEMENT/
REDUCTION A2
ENLARGEMENT/
REDUCTION A1
1505-4
1505-2
1503
1505-7
1505-5
ENLARGEMENT/
REDUCTION A2
ENLARGEMENT/
REDUCTION A1
1505-8
1504
1505-6

FIG. 15

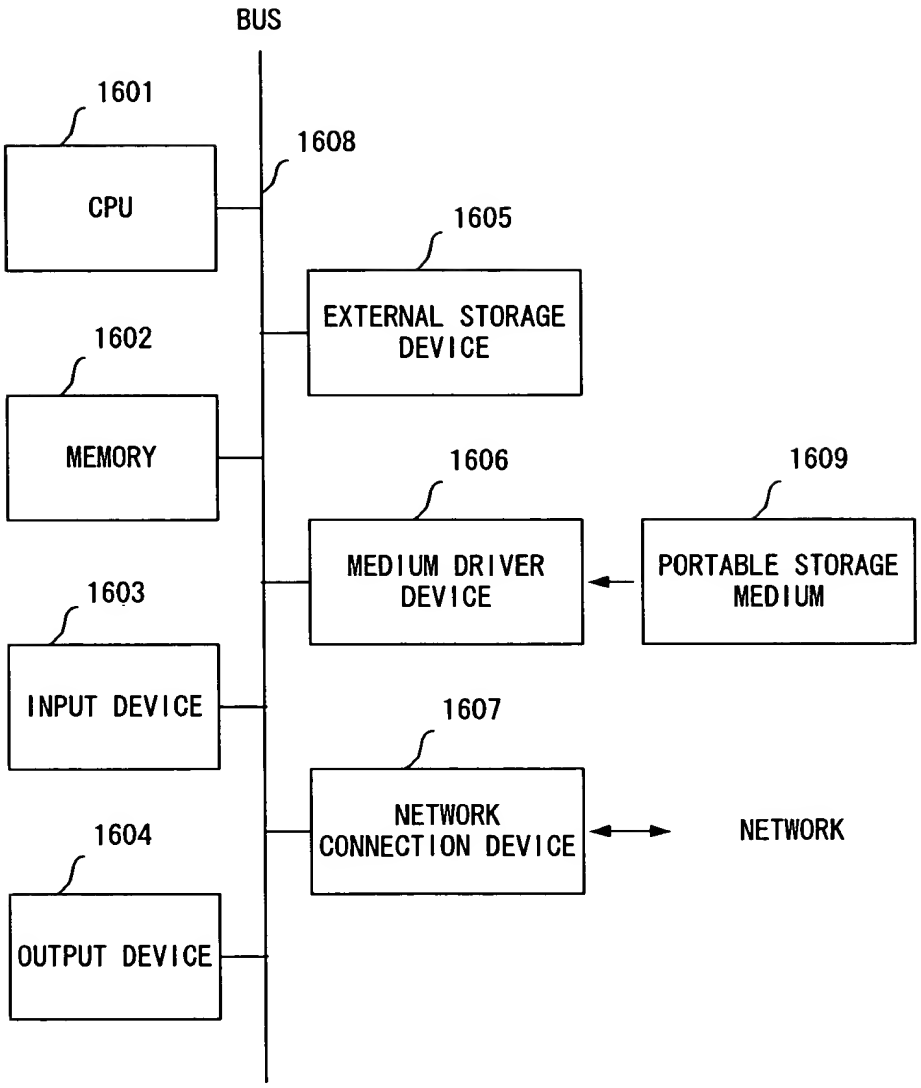
BUS
1601
CPU
1608
1605
EXTERNAL STORAGE DEVICE
1602
MEMORY
1606
MEDIUM DRIVER DEVICE
1609
PORTABLE STORAGE MEDIUM
1603
INPUT DEVICE
1607
NETWORK CONNECTION DEVICE
NETWORK
1604
OUTPUT DEVICE

FIG. 16

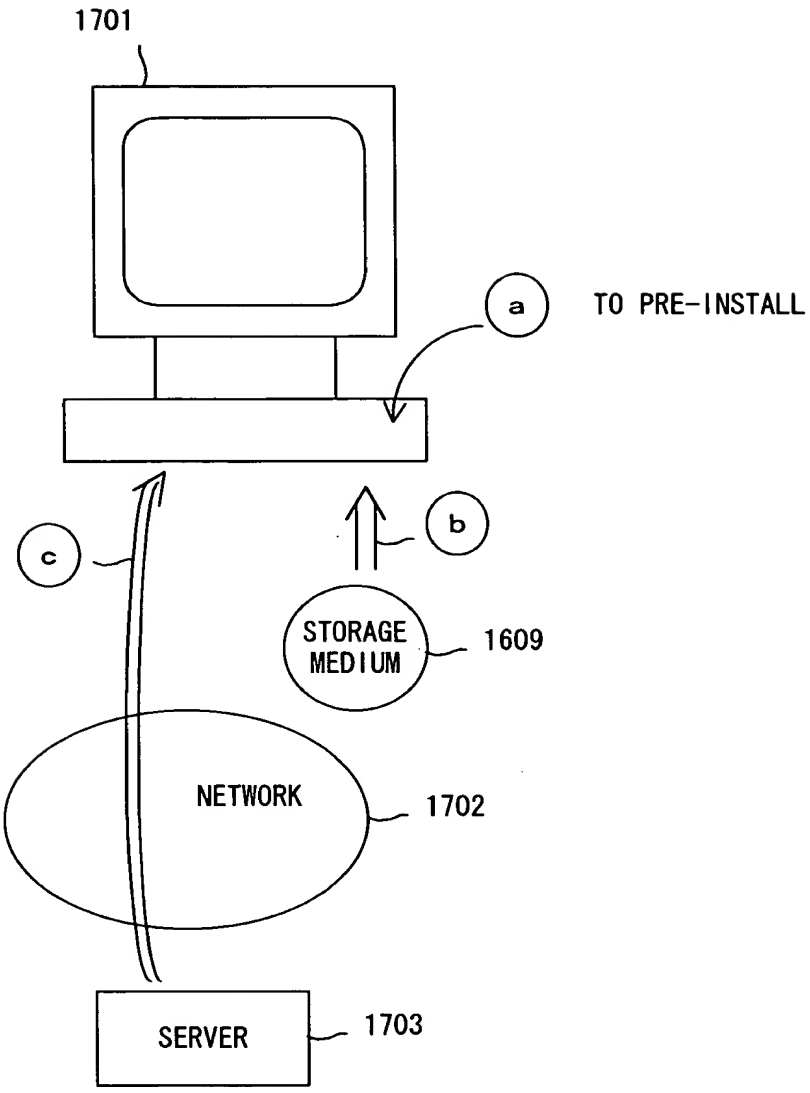
1701
a
TO PRE-INSTALL
b
c
STORAGE MEDIUM
1609
NETWORK
1702
SERVER
1703

FIG. 17